

Title (en)
ROBUST VISION-INERTIAL PEDESTRIAN TRACKING WITH HEADING AUTO-ALIGNMENT

Title (de)
ROBUSTE VISION-INERTIAL-FUSSGÄNGERVERFOLGUNG MIT KURSELBSTAUSRICHTUNG

Title (fr)
SUIVI VISUEL-INERTIEL ROBUSTE DE PIÉTON AVEC AUTO-ALIGNEMENT DE CAP

Publication
EP 3374737 B1 20221123 (EN)

Application
EP 16864935 A 20161109

Priority
• US 201562253637 P 20151110
• US 2016061184 W 20161109

Abstract (en)
[origin: WO2017083420A1] A method, a system, and a computer-readable medium for tracking a position and orientation of a pedestrian. The system tracks at least one of a head position or a head orientation of the pedestrian. The system tracks at least one of a foot position or a foot orientation of the pedestrian. The system determines a first heading or position uncertainty associated with the at least one of the head position or the head orientation of the pedestrian. The system determines a second heading or position uncertainty associated with the at least one of the foot position or the foot orientation of the pedestrian. Moreover, the system determines which of the first heading or position uncertainty or the second heading or position uncertainty is smaller. The system transfers the first heading or position uncertainty to the foot mounted tracking device, or transfers the second heading or position uncertainty to the head mounted tracking device.

IPC 8 full level
G01C 21/20 (2006.01); **G01C 21/00** (2006.01); **G01C 25/00** (2006.01)

CPC (source: EP US)
G01C 21/005 (2013.01 - EP US); **G01C 21/20** (2013.01 - EP US); **G01C 25/00** (2013.01 - US); **G06F 3/005** (2013.01 - US); **G06F 3/012** (2013.01 - US)

Designated contracting state (EPC)
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)
WO 2017083420 A1 20170518; EP 3374737 A1 20180919; EP 3374737 A4 20190710; EP 3374737 B1 20221123; EP 4194811 A1 20230614; ES 2935067 T3 20230301; FI 3374737 T3 20230113; US 10976163 B2 20210413; US 2018299271 A1 20181018

DOCDB simple family (application)
US 2016061184 W 20161109; EP 16864935 A 20161109; EP 22208862 A 20161109; ES 16864935 T 20161109; FI 16864935 T 20161109; US 201615765688 A 20161109